APPENDIX

The change(s) to the specification and/or claims are below shown by underscoring and bracketing.

In the Claims:

Claims 3, 5-7, 9-12, and 19 have been amended as follows:

- 3. (Amended) A component according to claim 1 [or 2], wherein the indicator material has an optical emission spectrum which varies in response to a physical parameter of the components.
- 5. (Amended) A component according to [any of claims 1 to 4] <u>claim 1</u>, wherein the refractory material is selected from the group consisting of ytrria stabilised zirconia, yttria partially stabilised zirconia, and yttria aluminium garnet.
- 6. (Amended) A component according to [any of claims 1 to 5] <u>claim 1</u>, wherein the indicator material is a phosphor material.
- 7. (Amended) A component according to [any of claims 1 to 5] claim 1, wherein the indicator material comprises a rare earth dopant.
- 9. (Amended) A component according to [any of claims 1 to 8] <u>claim 1</u>, wherein the indicator material comprises a compositionally-graded structure, a composite structure, or a multi-phase structure.
- 10. (Amended) A component according to [any of claims 1 to 9] <u>claim 1</u>, wherein the thermal barrier coating comprises a layered structure of indicator materials having different respective emission spectra.
- 11. (Amended) A component according to [any of claims 1 to 10] <u>claim 1</u>, wherein the thermal barrier coating comprises a layered structure of an outermost, substantially transparent region and a region including an indicator material optically interrogatable through the substantially transparent region.
- 12. (Amended) A component according to [any of claims 1 to 11] <u>claim 1</u>, wherein the component is a component of a combustion engine.
- 19. (Amended) A machine according to claim 17 [or 18], wherein the machine is a combustion engine.